Title (en)
TRANSMISSION OF AFFINE-INVARIANT SPATIAL MASK FOR ACTIVE DEPTH SENSING

Title (de)
ÜBERTRAGUNG VON AFFININVARIANTEN RÄUMLICHEN MASKEN FÜR AKTIVE TIEFENMESSUNGEN

Title (fr)
ÉMISSION DE MASQUE SPATIAL INVARIANT AUX TRANSFORMATIONS AFFINES, POUR UNE DÉTECTION DE PROFONDEUR ACTIVE

Publication
EP 2856076 B1 20200506 (EN)

Application
EP 13721831 A 20130418

Priority
- US 201261651528 P 20120524
- US 201261651529 P 20120524
- US 201261651533 P 20120524
- US 201261651535 P 20120524
- US 201261666405 P 20120629
- US 201313785797 A 20130305
- US 2013037183 W 20130418

Abstract (en)
[origin: US2013314696A1] A method operational on a transmitter device is provided for projecting a composite code mask. A composite code mask on a tangible medium is obtained, where the composite code mask includes a code layer combined with a carrier layer. The code layer may include uniquely identifiable spatially-coded codewords defined by a plurality of symbols. The carrier layer may be independently ascertainable and distinct from the code layer and includes a plurality of reference objects that are robust to distortion upon projection. At least one of the code layer and carrier layer may be pre-shaped by a synthetic point spread function prior to projection. At least a portion of the composite code mask is projected, by the transmitter device, onto a target object to help a receiver ascertain depth information for the target object with a single projection of the composite code mask.

IPC 8 full level
G06T 7/521 (2017.01); G01B 11/25 (2006.01); G06T 7/00 (2017.01); H04N 5/14 (2006.01)

CPC (source: EP US)
G01B 11/2513 (2013.01 - EP US); G01B 11/254 (2013.01 - EP US); G01B 11/2545 (2013.01 - EP US); G06T 5/00 (2013.01 - US); G06T 7/521 (2017.01 - EP US); H04B 1/12 (2013.01 - US)

Citation (examination)
WO 2008062407 A2 20080529 - MANTISVISION LTD [IL], et al

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
US 2013314696 A1 20131128; **US 9207070 B2 20151208**; CN 104272059 A 20150107; CN 104272059 B 20170405; CN 104285127 A 20150114; CN 104285127 B 20170517; CN 104285128 A 20150114; CN 104285128 B 20170531; EP 2856076 A1 20150408; EP 2856076 B1 20200506; EP 2856077 A1 20150408; EP 2856077 B1 20170301; EP 2856078 A1 20150408; EP 2856078 B1 20160601; ES 2627008 T3 20170726; ES 2810274 T3 20210308; HU E032419 T2 20170928; HU E050266 T2 20201130; JP 2015518960 A 20150706; JP 2015518961 A 20150706; JP 2015518962 A 20150706; JP 2015524057 A 20150820; JP 2017215978 A 20171207; JP 2017223687 A 20171221; JP 6162225 B2 20170712; JP 6370777 B2 20180808; JP 6416083 B2 20181031; KR 101715458 B1 20170310; KR 20150006438 A 20150116; US 2013315354 A1 20131128; US 2013315501 A1 20131128; US 9188433 B2 20151117; US 9448064 B2 20160920; WO 2013176806 A1 20131128; WO 2013176807 A1 20131128; WO 2013176808 A1 20131128

DOCDB simple family (application)
US 201313785797 A 20130305; CN 201380023988 A 20130418; CN 201380024011 A 20130418; CN 201380024017 A 20130418; EP 13721831 A 20130418; EP 13721835 A 20130418; EP 13723286 A 20130418; ES 13721831 T 20130418; ES 13721835 T 20130418; HU E13721831 A 20130418; HU E13721835 A 20130418; JP 2015514020 A 20130418; JP 2015514021 A 20130418; JP 2015514022 A 20130418; JP 2017134648 A 20170710; JP 2017142011 A 20170721; KR 20147031300 A 20130418; US 2013037183 W 20130418; US 2013037221 W 20130418; US 2013037235 W 20130418; US 201313785939 A 20130305; US 201313785981 A 20130305